

Abstract

An automatic gear shifting device for a vehicle comprises a member coupled to a portion of a surface of the vehicle. An 5 arm is pivotally coupled to a portion of the member. The arm is coupled to at least at least one actuator for providing reciprocating motion of the arm. A neutral gear positioning actuator is activated when a brake pedal of the vehicle is engaged, and a drive gear positioning actuator is activated 10 when the brake pedal is disengaged. The arm is coupled to a transmission linkage shaft to provide shifting from drive gear to neutral gear when the brake pedal is engaged and shifting from neutral gear to drive gear when the brake is disengaged.